

P20687.P01

UTILITY  
PATENT APPLICATION  
TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

P20687

Total Pages

Inventor(s) or Application Inventor  
Kazutoshi YASUNAGA, Toshiyuki MORII, and Hiroyuki  
EHARATitle: EXCITATION VECTOR GENERATOR, SPEECH  
CODER AND SPEECH DECODER

ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

## APPLICATION ELEMENTS

## ACCOMPANYING APPLICATION PARTS

1. ☒ Fee Transmittal Form  
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
- a. ☐ Small Entity  
Statement(s)
3. ☒ Specification [Total Pages 153]  
(preferred arrangement set forth below)
- Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
- ☒ Drawing(s) (35 USC 113) [Total Sheets 23]
- ☒ Oath or Declaration [Total Pages 4]
- a. ☐ Newly executed (original or copy) ☐ Unexecuted
- b. ☒ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 20 completed)  
[Note Box 6 below]
- i. ☒ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).
- ☒ Incorporation By Reference (useable if Box 5b is checked)  
The entire disclosure of the prior application, from which a  
copy of the oath or declaration is supplied under Box 5b, is  
considered as being part of the disclosure of the accompanying  
application and is hereby incorporated by reference therein.
7. ☐ Application Data Sheet. See 37 CFR 1.76
8. ☐ CD-Rom or CD-R in duplicate, large table or Computer  
Program (Appendix)

9. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies
10. ☐ Assignment Papers (cover sheet & document(s))
11. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney  
(when there is an assignee)
12. ☐ English Translation Document (if applicable)
13. ☐ Information Disclosure ☐ Copies of IDS Citations  
Statement (IDS)/PTO-1449
14. ☐ Preliminary Amendment
15. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
16. ☒ Figure of Drawing to be published 19B
17. ☒ Foreign priority claimed
- a. ☒ Claim of Priority
- b. ☐ Certified Copy of Priority Document(s)
18. ☒ Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO.,  
Ltd. Of Osaka, JAPAN
19. ☐ Other: \_\_\_\_\_

## 20. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:

- ☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior Application No. 09/440,092, filed November 15, 1999  
Prior application information: Examiner: \_\_\_\_\_ Group Art Unit: \_\_\_\_\_

21. ☐ Amend the specification by inserting before the first line the sentence:This application is a    continuation-in-part,    continuation,    divisional, of Application No.    /   , filed   .Address all future correspondence to **Customer No. 7055** at the present address of:GREENBLUM & BERNSTEIN, P.L.C.  
1941 Roland Clarke Place  
Reston, VA 20191  
(703) 716-1191

Date


  
Signature
 Reg No  
33,329
Bruce H. Bernstein, Reg No. 29,027  
Typed or Printed Name

## FEE TRANSMITTAL

Complete if Known

FEE TRANSMITTAL		Application Number		Not Yet Assigned	
		Filing Date		Concurrently Herewith	
		First Named Inventor		K. YASUNAGA et al.	
		Group Art Unit		Unassigned	
		Examiner Name		Unassigned	
TOTAL AMOUNT OF PAYMENT		(\$888.00)		Attorney Docket Number	P20687

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																																																										
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to: Deposit Account Number <u>19-0089</u> Deposit Account Name <u>GREENBLUM &amp; BERNSTEIN, P.L.C.</u> <input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17, including any required extension of time fees in any concurrent or future reply requiring a petition for extension of time for its timely submission (37 CFR 1.136(a)(3)) <input type="checkbox"/> Charge the Issue Fee Set in 37 CFR 1.18 at the Mailing of the Notice of Allowance, 37 CFR 1.311(b) <input type="checkbox"/> Applicant Claims Small Entity Status See 37 CFR 1.27. 2. <input checked="" type="checkbox"/> Payment Enclosed: <input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other		<b>3. ADDITIONAL FEES</b> <table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>105</td><td>130</td><td>205</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>127</td><td>50</td><td>227</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet.</td><td></td></tr> <tr><td>139</td><td>130</td><td>139</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>147</td><td>2,520</td><td>147</td><td>2,520</td><td>For filing a request for reexamination</td><td></td></tr> <tr><td>112</td><td>920*</td><td>112</td><td>920*</td><td>Requesting publication of SIR</td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td>Prior to Examiner action</td><td></td></tr> <tr><td>113</td><td>1,840*</td><td>113</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>115</td><td>110</td><td>215</td><td>55</td><td>Extension for response within 1st month</td><td></td></tr> <tr><td>116</td><td>390</td><td>216</td><td>195</td><td>Extension for response within 2nd month</td><td></td></tr> <tr><td>117</td><td>890</td><td>217</td><td>445</td><td>Extension for response within 3rd month</td><td></td></tr> <tr><td>118</td><td>1,390</td><td>218</td><td>695</td><td>Extension for response within 4th month</td><td></td></tr> <tr><td>128</td><td>1,890</td><td>228</td><td>945</td><td>Extension for response within 5th month</td><td></td></tr> <tr><td>119</td><td>310</td><td>219</td><td>155</td><td>Notice of Appeal</td><td></td></tr> <tr><td>120</td><td>310</td><td>220</td><td>155</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>121</td><td>270</td><td>221</td><td>135</td><td>Request for oral hearing</td><td></td></tr> <tr><td>138</td><td>1,510</td><td>138</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>140</td><td>110</td><td>240</td><td>55</td><td>Petition to revive unavoidably abandoned application</td><td></td></tr> <tr><td>141</td><td>1,240</td><td>241</td><td>620</td><td>Petition to revive unintentionally abandoned application</td><td></td></tr> <tr><td>142</td><td>1,240</td><td>242</td><td>620</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>143</td><td>440</td><td>243</td><td>220</td><td>Design issue fee</td><td></td></tr> <tr><td>144</td><td>600</td><td>244</td><td>300</td><td>Plant issue fee</td><td></td></tr> <tr><td>122</td><td>130</td><td>122</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>123</td><td>50</td><td>123</td><td>50</td><td>Petitions related to provisional applications</td><td></td></tr> <tr><td>126</td><td>240</td><td>126</td><td>240</td><td>Submission of IDS</td><td></td></tr> <tr><td>581</td><td>40</td><td>581</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>146</td><td>710</td><td>246</td><td>355</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>149</td><td>710</td><td>249</td><td>355</td><td>For each additional invention to be examined (37 CFR 1.129(b))</td><td></td></tr> <tr><td>179</td><td>710</td><td>279</td><td>355</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>169</td><td>900</td><td>169</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> <tr><td colspan="6">Other fee (specify) _____</td></tr> <tr><td colspan="5">SUBTOTAL (3)</td> <td>(\$)</td> <td>0.00</td> </tr> </tbody> </table>				Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	105	130	205	65	Surcharge - late filing fee or oath		127	50	227	25	Surcharge - late provisional filing fee or cover sheet.		139	130	139	130	Non-English specification		147	2,520	147	2,520	For filing a request for reexamination		112	920*	112	920*	Requesting publication of SIR						Prior to Examiner action		113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action		115	110	215	55	Extension for response within 1st month		116	390	216	195	Extension for response within 2nd month		117	890	217	445	Extension for response within 3rd month		118	1,390	218	695	Extension for response within 4th month		128	1,890	228	945	Extension for response within 5th month		119	310	219	155	Notice of Appeal		120	310	220	155	Filing a brief in support of an appeal		121	270	221	135	Request for oral hearing		138	1,510	138	1,510	Petition to institute a public use proceeding		140	110	240	55	Petition to revive unavoidably abandoned application		141	1,240	241	620	Petition to revive unintentionally abandoned application		142	1,240	242	620	Utility issue fee (or reissue)		143	440	243	220	Design issue fee		144	600	244	300	Plant issue fee		122	130	122	130	Petitions to the Commissioner		123	50	123	50	Petitions related to provisional applications		126	240	126	240	Submission of IDS		581	40	581	40	Recording each patent assignment per property (times number of properties)		146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))		149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))		179	710	279	355	Request for Continued Examination (RCE)		169	900	169	900	Request for expedited examination of a design application		Other fee (specify) _____						Other fee (specify) _____						SUBTOTAL (3)					(\$)	0.00
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																							
105	130	205	65	Surcharge - late filing fee or oath																																																																																																																																																																																																								
127	50	227	25	Surcharge - late provisional filing fee or cover sheet.																																																																																																																																																																																																								
139	130	139	130	Non-English specification																																																																																																																																																																																																								
147	2,520	147	2,520	For filing a request for reexamination																																																																																																																																																																																																								
112	920*	112	920*	Requesting publication of SIR																																																																																																																																																																																																								
				Prior to Examiner action																																																																																																																																																																																																								
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action																																																																																																																																																																																																								
115	110	215	55	Extension for response within 1st month																																																																																																																																																																																																								
116	390	216	195	Extension for response within 2nd month																																																																																																																																																																																																								
117	890	217	445	Extension for response within 3rd month																																																																																																																																																																																																								
118	1,390	218	695	Extension for response within 4th month																																																																																																																																																																																																								
128	1,890	228	945	Extension for response within 5th month																																																																																																																																																																																																								
119	310	219	155	Notice of Appeal																																																																																																																																																																																																								
120	310	220	155	Filing a brief in support of an appeal																																																																																																																																																																																																								
121	270	221	135	Request for oral hearing																																																																																																																																																																																																								
138	1,510	138	1,510	Petition to institute a public use proceeding																																																																																																																																																																																																								
140	110	240	55	Petition to revive unavoidably abandoned application																																																																																																																																																																																																								
141	1,240	241	620	Petition to revive unintentionally abandoned application																																																																																																																																																																																																								
142	1,240	242	620	Utility issue fee (or reissue)																																																																																																																																																																																																								
143	440	243	220	Design issue fee																																																																																																																																																																																																								
144	600	244	300	Plant issue fee																																																																																																																																																																																																								
122	130	122	130	Petitions to the Commissioner																																																																																																																																																																																																								
123	50	123	50	Petitions related to provisional applications																																																																																																																																																																																																								
126	240	126	240	Submission of IDS																																																																																																																																																																																																								
581	40	581	40	Recording each patent assignment per property (times number of properties)																																																																																																																																																																																																								
146	710	246	355	Filing a submission after final rejection (37 CFR 1.129(a))																																																																																																																																																																																																								
149	710	249	355	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																																																								
179	710	279	355	Request for Continued Examination (RCE)																																																																																																																																																																																																								
169	900	169	900	Request for expedited examination of a design application																																																																																																																																																																																																								
Other fee (specify) _____																																																																																																																																																																																																												
Other fee (specify) _____																																																																																																																																																																																																												
SUBTOTAL (3)					(\$)	0.00																																																																																																																																																																																																						
<b>1. FILING FEE</b> <table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>101</td><td>710</td><td>201</td><td>355</td><td>Utility filing fee</td><td>710</td></tr> <tr><td>106</td><td>320</td><td>206</td><td>160</td><td>Design filing fee</td><td></td></tr> <tr><td>107</td><td>490</td><td>207</td><td>245</td><td>Plant filing fee</td><td></td></tr> <tr><td>108</td><td>710</td><td>208</td><td>355</td><td>Reissue filing fee</td><td></td></tr> <tr><td>114</td><td>150</td><td>214</td><td>75</td><td>Provisional filing fee</td><td></td></tr> <tr><td colspan="6">SUBTOTAL (1) (\$)</td><td>710</td></tr> </tbody> </table> <b>2. CLAIMS</b> <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Extra</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>21</td> <td>-20=</td> <td>1</td> <td>18</td> </tr> <tr> <td>Independent</td> <td>5</td> <td>-3=</td> <td>2</td> </tr> <tr> <td>Multiple Dependent Claims</td> <td></td> <td></td> <td>0</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr><td>103</td><td>18</td><td>203</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>102</td><td>80</td><td>202</td><td>40</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>104</td><td>270</td><td>204</td><td>135</td><td>Multiple dependent claim</td><td></td></tr> <tr><td>109</td><td>80</td><td>209</td><td>40</td><td>Reissue independent claims over original patent</td><td></td></tr> <tr><td>110</td><td>18</td><td>210</td><td>9</td><td>Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr><td colspan="6">SUBTOTAL (2) (\$)</td><td>178</td></tr> </tbody> </table>		Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	101	710	201	355	Utility filing fee	710	106	320	206	160	Design filing fee		107	490	207	245	Plant filing fee		108	710	208	355	Reissue filing fee		114	150	214	75	Provisional filing fee		SUBTOTAL (1) (\$)						710	Total Claims	Extra	Fee from below	Fee Paid	21	-20=	1	18	Independent	5	-3=	2	Multiple Dependent Claims			0	Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid	103	18	203	9	Claims in excess of 20		102	80	202	40	Independent claims in excess of 3		104	270	204	135	Multiple dependent claim		109	80	209	40	Reissue independent claims over original patent		110	18	210	9	Reissue claims in excess of 20 and over original patent		SUBTOTAL (2) (\$)						178	*Reduced by Basic Filing Fee paid																																																																																																				
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																							
101	710	201	355	Utility filing fee	710																																																																																																																																																																																																							
106	320	206	160	Design filing fee																																																																																																																																																																																																								
107	490	207	245	Plant filing fee																																																																																																																																																																																																								
108	710	208	355	Reissue filing fee																																																																																																																																																																																																								
114	150	214	75	Provisional filing fee																																																																																																																																																																																																								
SUBTOTAL (1) (\$)						710																																																																																																																																																																																																						
Total Claims	Extra	Fee from below	Fee Paid																																																																																																																																																																																																									
21	-20=	1	18																																																																																																																																																																																																									
Independent	5	-3=	2																																																																																																																																																																																																									
Multiple Dependent Claims			0																																																																																																																																																																																																									
Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid																																																																																																																																																																																																							
103	18	203	9	Claims in excess of 20																																																																																																																																																																																																								
102	80	202	40	Independent claims in excess of 3																																																																																																																																																																																																								
104	270	204	135	Multiple dependent claim																																																																																																																																																																																																								
109	80	209	40	Reissue independent claims over original patent																																																																																																																																																																																																								
110	18	210	9	Reissue claims in excess of 20 and over original patent																																																																																																																																																																																																								
SUBTOTAL (2) (\$)						178																																																																																																																																																																																																						

SUBMITTED BY				Complete (if applicable)	
Typed or Printed Name		Bruce H. Bernstein		Reg. Number	
Signature		Date		Deposit Account User ID	

P20687.A01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Kazutoshi YASUNAGA et al.

Group Art Unit

Serial No : Not Yet Assigned  
(Continuation of 09/440,092)

Examiner

Filed : Concurrently Herewith

For : EXCITATION VECTOR GENERATOR, SPEECH CODER AND SPEECH  
DECODER

**REQUEST FOR DELETION OF INVENTORS  
PURSUANT TO 37 C.F.R. 1.53(d)(4)**

Assistant Commissioner of Patents  
Washington, DC 20231

Sir :

In accordance with 37 C.F.R. 1.53(d)(4), Applicants hereby request deletion of the following inventor named in Parent Application Serial No. 09/440,092, filed November 15, 1999:

Taisuke Watanabe

Deletion of this inventor is deemed proper under the guidelines set forth in 37 C.F.R. 1.53(d)(4), because it has been determined that this individual is not an inventor of the invention now being claimed in the present application.

Therefore, the inventors of the presently claimed invention are as follows;

Kazutoshi Yasunaga

Toshiyuki Morii

Hiroyuki Ehara

09/440,092 "Speech Vector Excitation"

[illegible]

Respectfully submitted,  
Kazutoshi YASUNAGA et al.

Leslie Paperner Reg. No. 33,329  
 Bruce H. Bernstein  
 Reg. No. 29,027

April 30, 2001  
GREENBLUM & BERNSTEIN, P.L.C.  
1941 Roland Clarke Place  
Reston, VA 20191  
(703) 716-1191

P20687.P03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant :K. YASUNAGA et al.

Serial No. :Not Yet Assigned

Filed :Concurrently Herewith

For :EXCITATION VECTOR GENERATOR, SPEECH CODER AND SPEECH DECODER

**CLAIM OF PRIORITY**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

Applicant hereby claims the right of priority granted pursuant to 35 U.S.C. 119 based upon Japanese Application Nos. 8-294738, filed November 7, 1996; 8-310324, filed November 21, 1996; 9-34582, filed February 19, 1997; and 9-34583, filed February 19, 1997. As required by 37 C.F.R. 1.55, certified copies of the Japanese applications have been filed in parent Application No. 09/101,186, filed July 6, 1998.

Respectfully submitted,  
K. YASUNAGA et al.

*Bruce H. Bernstein*  
Bruce H. Bernstein  
Reg. No. 29,027  
33,329

April 30, 2001  
GREENBLUM & BERNSTEIN, P.L.C.  
1941 Roland Clarke Place  
Reston, VA 20191  
(703) 716-1191

D.J.  
#2 6-6-01  
*Priority Papers*  
J1036 U.S. PTO  
09/843939  
04/30/01